Aggregate Water-Use Data Rhode Island

Comparison of Data Characteristics for the Blackstone and Pawcatuck

Pilot Basins

WAP Registration Sub-Committee
11/22/2002

Objectives

- Identify sources of water-use data
- Compare & contrast data for pilot basins
- Identify potential gaps in water-use data collection

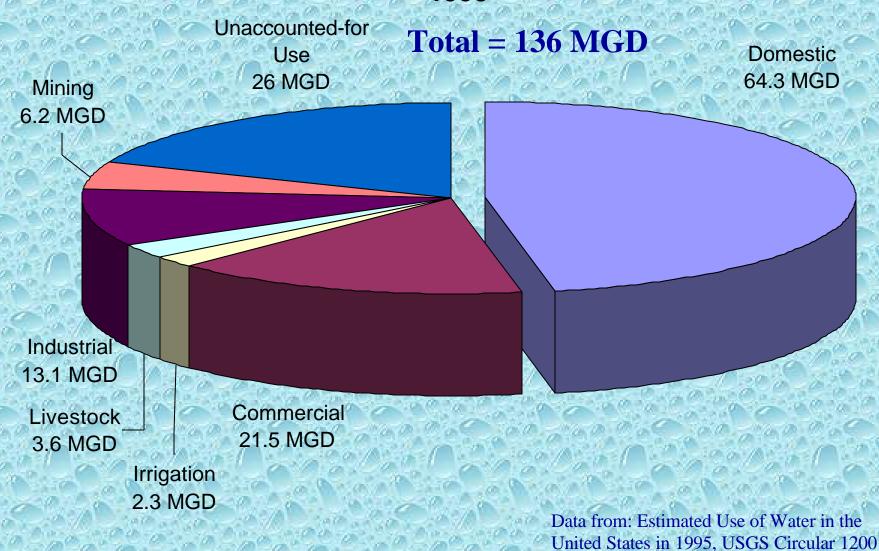
Data Sources

- US Geological Survey, Estimated Use of Water in the United States in 1995, USGS Circular 1200
- Water Supply System Management Plans (1997, 1998 compiled by M. Terebus, 2002)
- Soon USGS Water Use studies

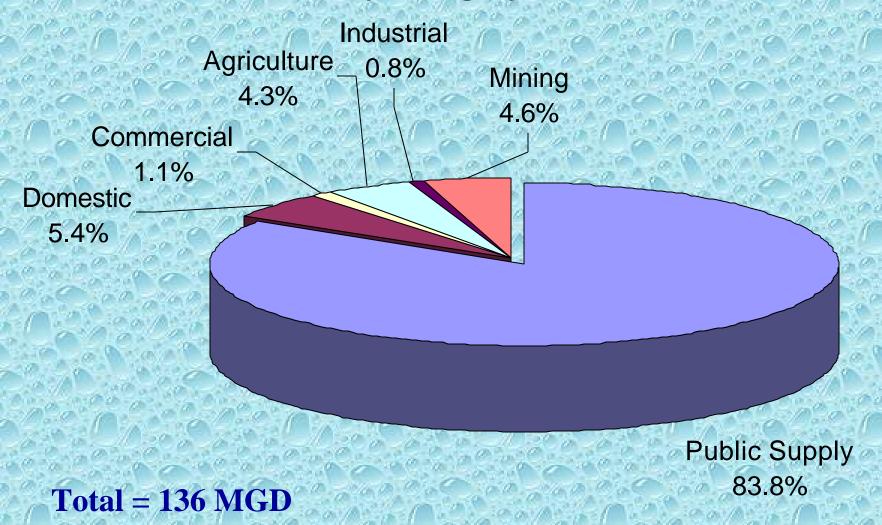
Annual Water Use Data Summary



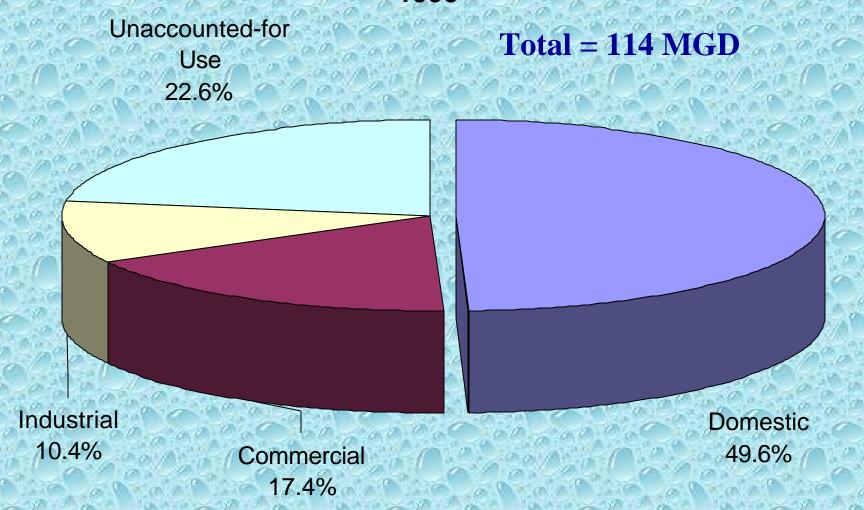
Total Withdrawals by Water-Use Category - Rhode Island 1995



Total Withdrawals by Category - Rhode Island 1995

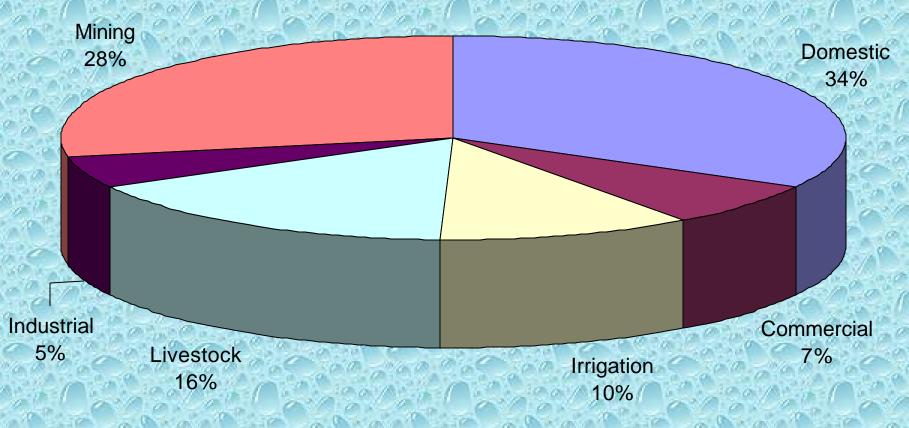


Pubic-Supply Freshwater Use by Category - Rhode Island 1995



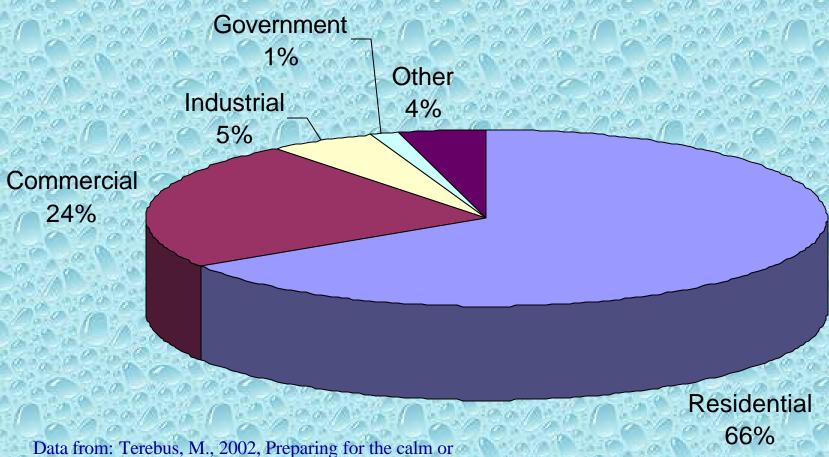
Self-Supply Withdrawals by Category - Rhode Island 1995





Water Use by Category - WSSMP 1998



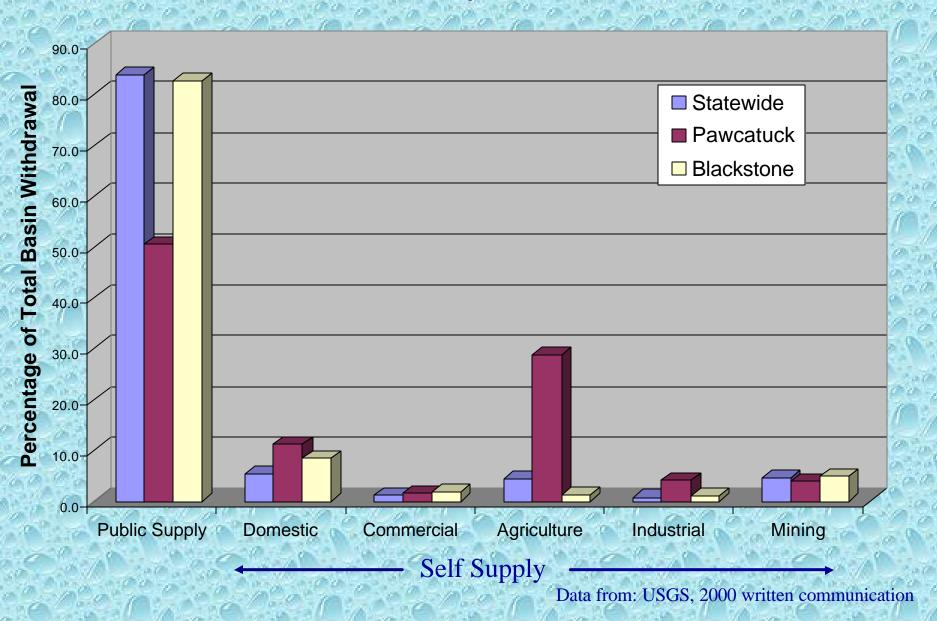


Data from: Terebus, M., 2002, Preparing for the calm or relying on the storm, the Rhode Island Water System Supply Management Plan.

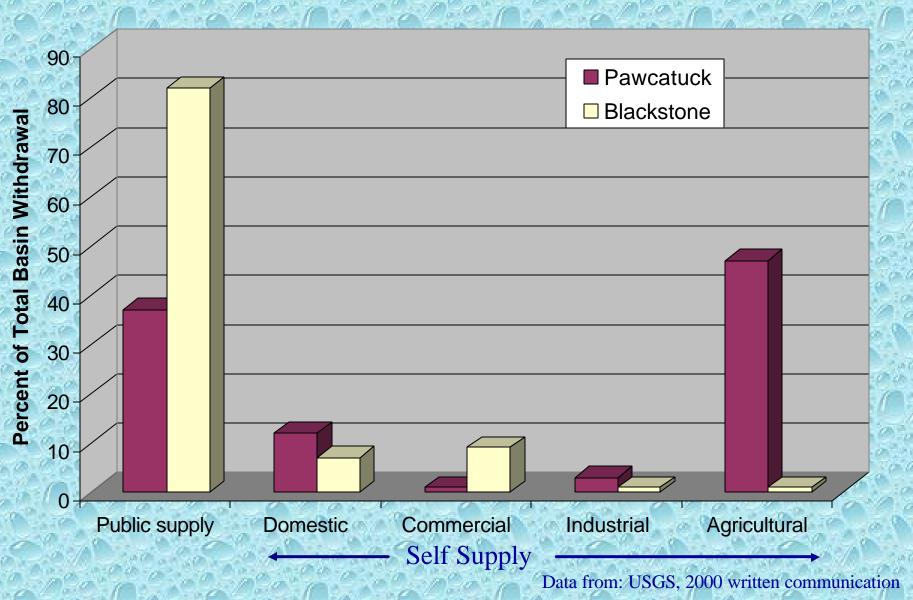
Pilot Basin Comparisons



Water Withdrawal Comparison - Rhode Island 1995



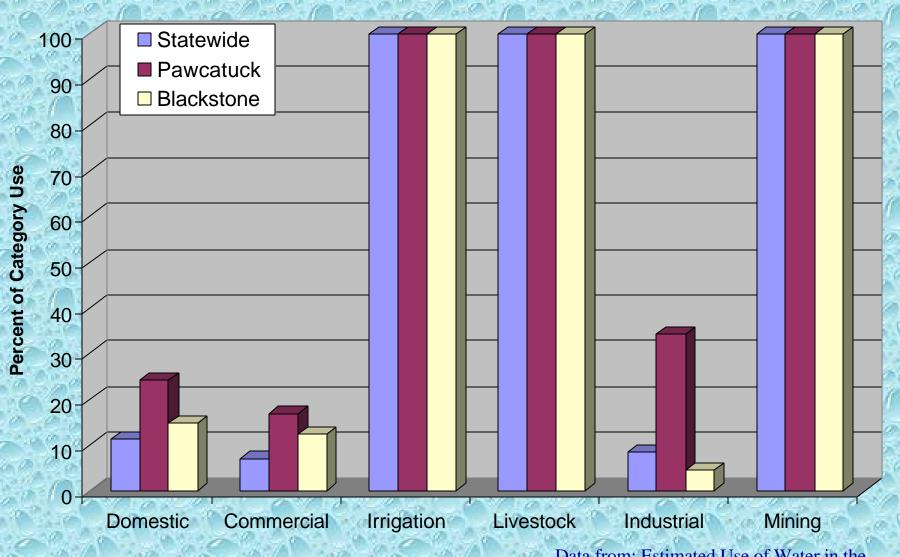
Water Withdrawal Comparison - Rhode Island 2000



Data Gaps



Self Supply Percentage of Use by Catgeory - Rhode Island 1995



Source of Withdrawal Data

Water Withdrawals

Public Supply Withdrawals

Domestic Self-supplied withdrawals

Commercial Self-supplied withdrawals

Industrial Self-supplied withdrawals

Agricultural Self-supplied withdrawals

Type of Data

metered

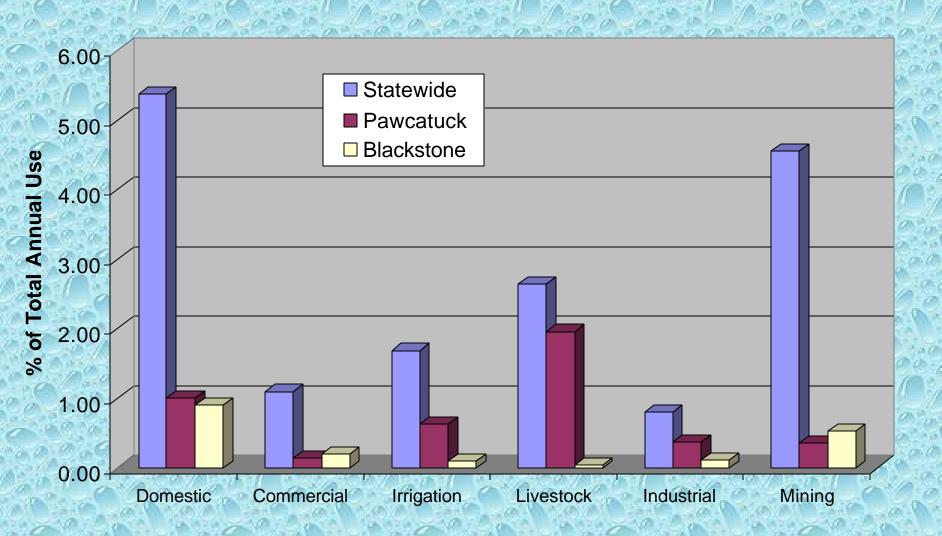
estimated based on public supply (71 gal/d/person

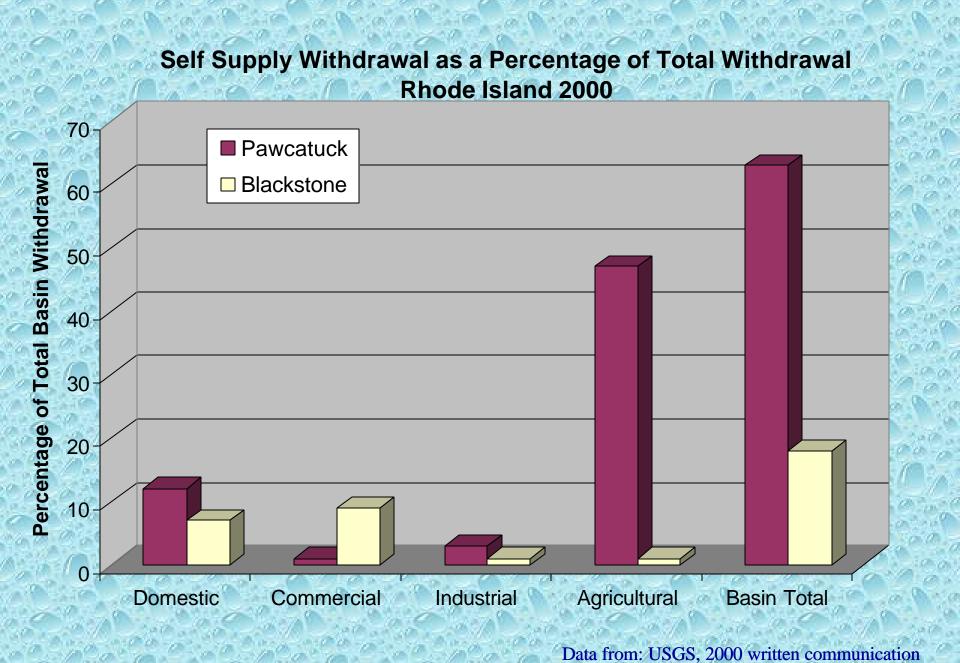
estimated (based on SIC code)

estimated (based on SIC code)

estimated based on agricultural water use coefficients

Self-Supply as Percentage of Total Annual Rhode Island Water Use 1995





Summary

- Un-metered water withdrawals comprise approximately 16% of total State withdrawals.
- Un-metered withdrawals vary considerably between the Pawcatuck (63%) and the Blackstone (18%).
- Significant data gaps include domestic (12%) and agricultural (47%) withdrawals the Pawcatuck and commercial (9%) withdrawals in the Blackstone.